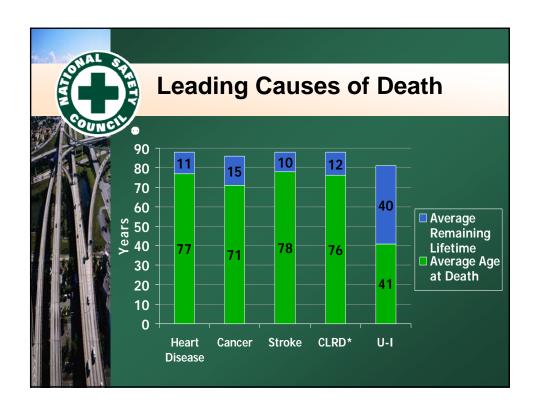
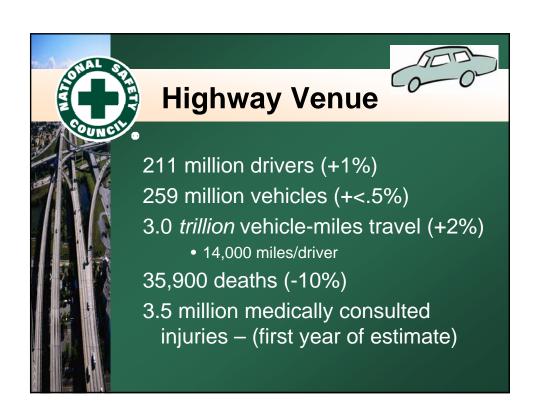


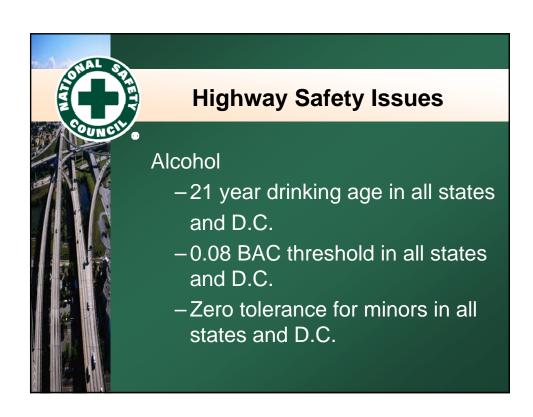


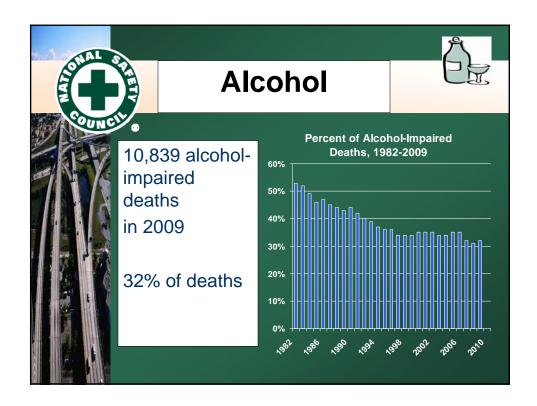
Heart disease 616,067 Cancer 562,875 Stroke 135,952 Chronic lower respiratory disease 127,924 Unintentional injuries 123,706 Alzheimer's disease 74,632

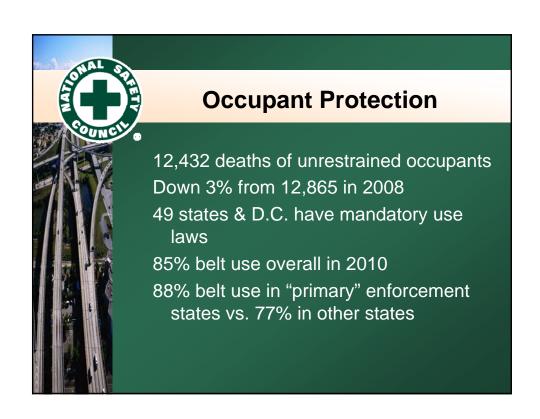


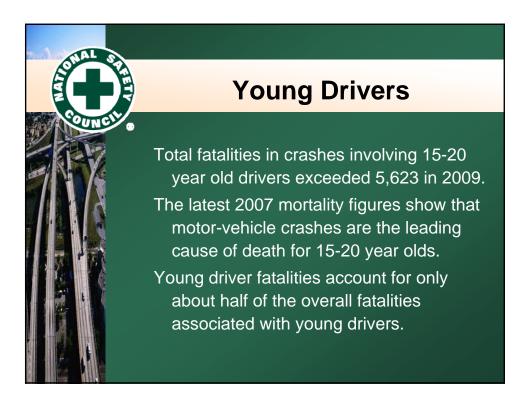


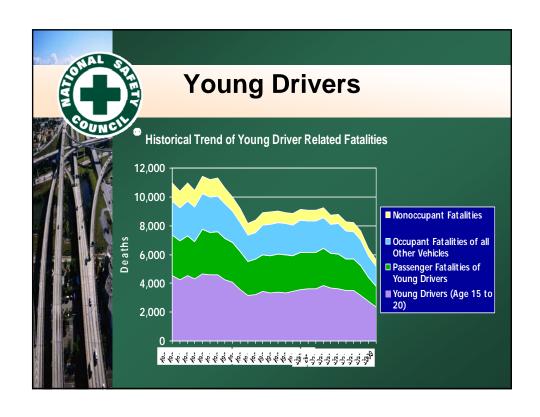


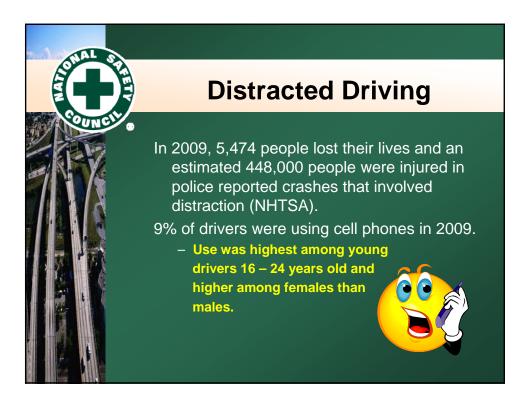
















Scope of the Issue

Inattention involved in 78% of all observed crashes and 66% of all crash events (crash / near crash). (Virginia Tech)

9% of drivers are using hand-held cell phones at any one time. (NHTSA)

236 million cell phone subscribers in the U.S. (CTIA, May 2007)



Scope of the Issue

73% talked on cell phones while driving and 19% admitted text messaging while driving. (Nationwide Insurance)

2/3 of teens admit to text messaging while driving; 16% of all cell phone users. (Zogby)



Relative risk of cell phone use is similar to the hazard associated with driving with a BAC of .08. (Redelmeier & Tibshirani)

Slower reaction times caused by cell phone use are comparable to that of a .08 BAC. (Strayer)

Measuring the Risk

In an observational study, 75% of cell phone users committed a traffic violation. (Strayer)

Cell phone users are 4 times as likely to be involved in injury crashes.

(Insurance Institute for Highway Safety)

Simulator study showed cell phone users were 5 times more likely to be in a crash. (Strayer)



Effects on Driving

It is well established that cell phone usage significantly impairs driving performance.

"Inattention blindness" – looking but not seeing. (James, Neisser, Simmons)

Drivers talking on a cell phone look but fail to see up to half of the information in the driving environment.



Effects on Driving

"Dual-task Interference" – Active engagement in conversation raises the impairment.

Attention is withdrawn from the processing of the information in the driving environment necessary for safe operation of the vehicle.

Impairments occur from both hand-held and hands-free units.

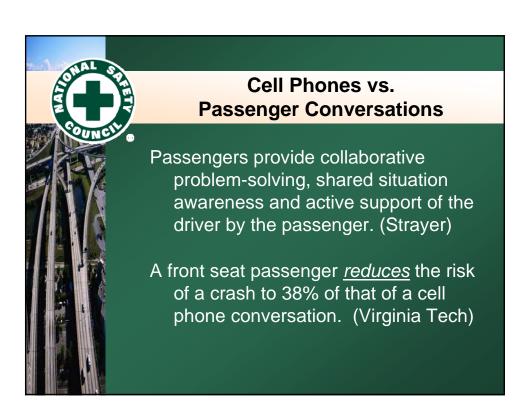


Cell Phones vs. Other Distractions

Cell phone use is more distracting than radio broadcasts, books on tape, recorded conversations and passengers. (Strayer)

Cell phone use is less distracting than certain other activities (applying makeup, reaching for a moving object, reading) but their lower frequency lowers the involvement in crashes below that of cell phones. (Virginia Tech)







Hand-Held vs. Hands-Free

No difference in the interference from a hands-free or hand-held conversation. (Strayer)

- Dialing increases missed signals, reduces reaction time, and increases mental workload.
- Conversing is less distracting, but endures much longer, which leads to higher crash involvement.



Other Factors

Significant factors in the magnitude of the distraction:

- Content of the conversation
- Age of the driver
- Conditions outside the vehicle



Other Factors

Multiple tasks or distractions are the most demanding.

- Interaction with music or navigation systems
- High speed
- Following another vehicle

Text-Messaging: drv + txt = :(

9 out of 10 people believe that text messaging while driving is dangerous and distracting. (Harris Interactive & Pinger)

91% of American adults believe that those who text message while driving are as dangerous as those who have had a couple alcoholic drinks. (Harris Interactive & Pinger)

Almost 80% of crashes and 65% of near misses occur within three seconds of some form of driver distraction. (NHTSA)



Implications for Employers

Injuries to employees; lost time on the job

- Motor vehicle crashes are the #1 cause of work-related fatalities (2,800 in 2006)
- Average cost per crash is \$16,500
- Average cost per crash injury: \$74,000



Implications for Employers

Employers are being sued for liability associated with crashes involving employees conducting company business on cell phones.

 One recent case settled out of court for \$5,000,000.





